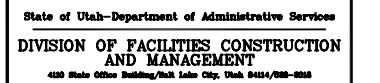
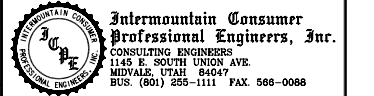


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DRAPER PRISON  
ADMIN/ACADEMY  
UNDERGROUND POWER  
UPGRADE

STATE PROPERTY ID. #-  
DFCM PROJECT #06139100

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SHEET TITLE
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TITLE SHEET  
GENERAL LOCATION PLAN  
AND DRAWING LIST

E — O 1  
SHEET 1 OF 11

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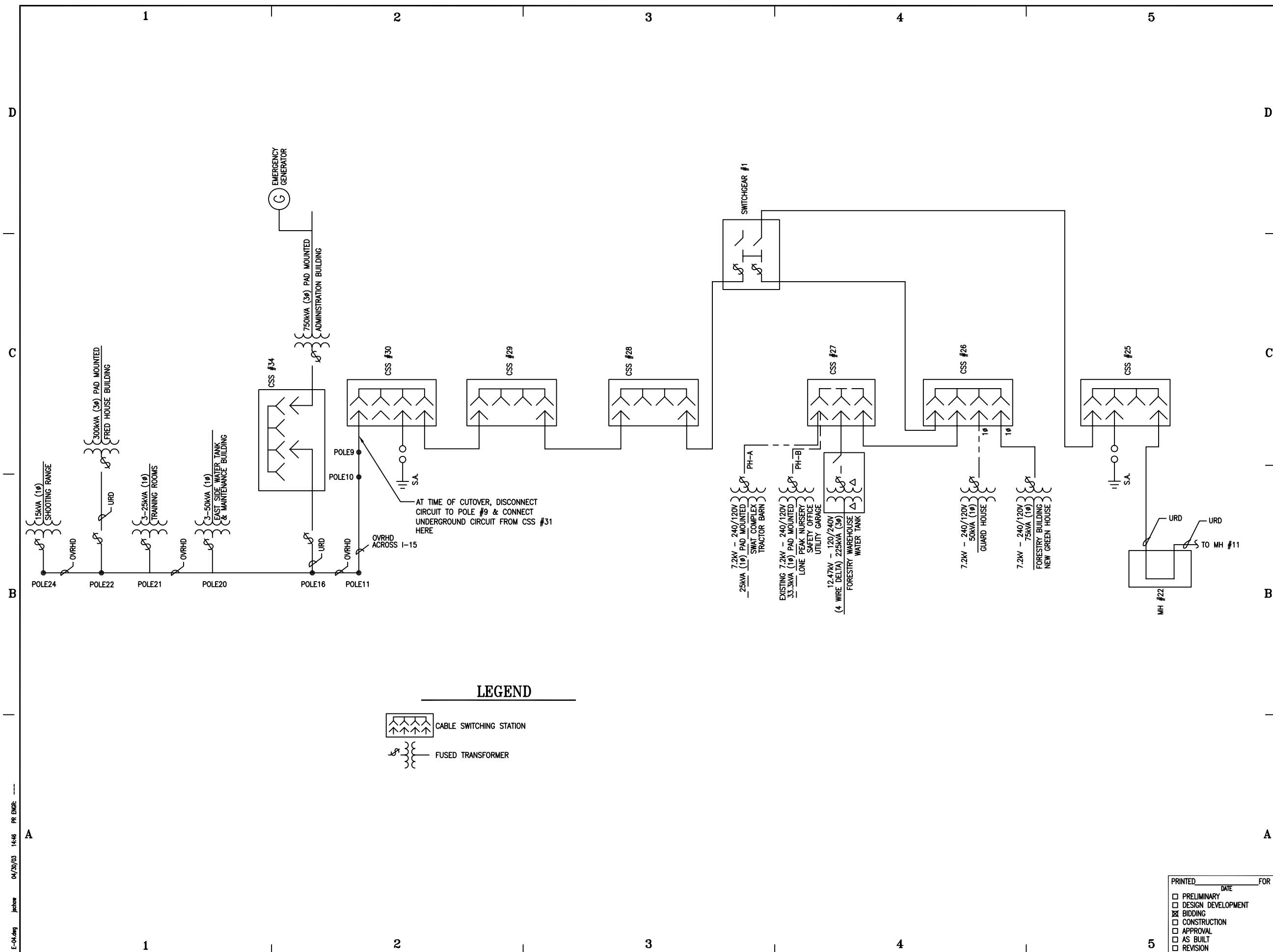
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CORRECTIONS

DRAPER, UTAH

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ADMIN/ACADEMY  
UNDERGROUND POWER  
UPGRADE

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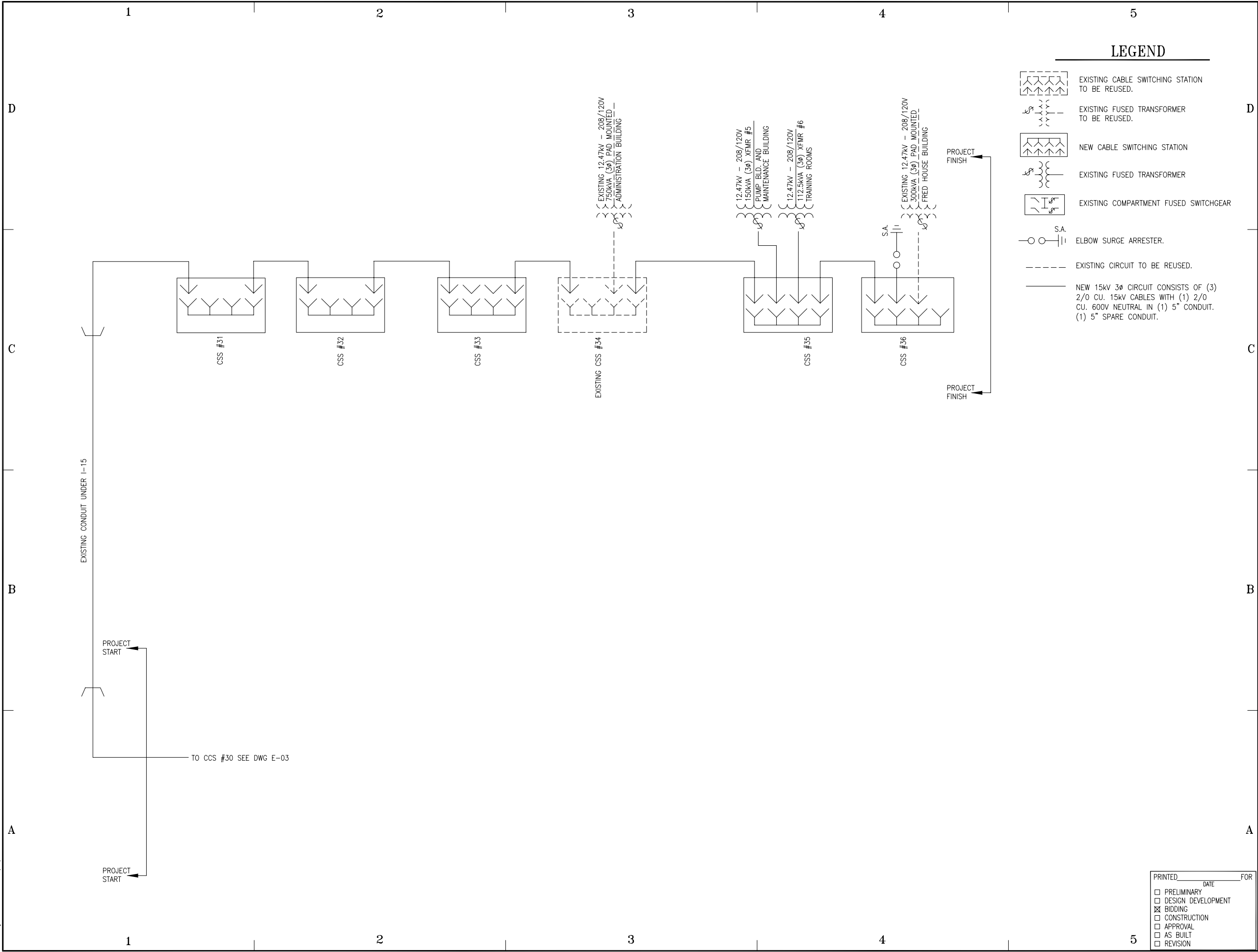
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EXISTING SYSTEM  
ONE-LINE DIAGRAM

E - 03


SHEET 3 OF 11





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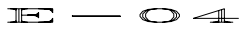
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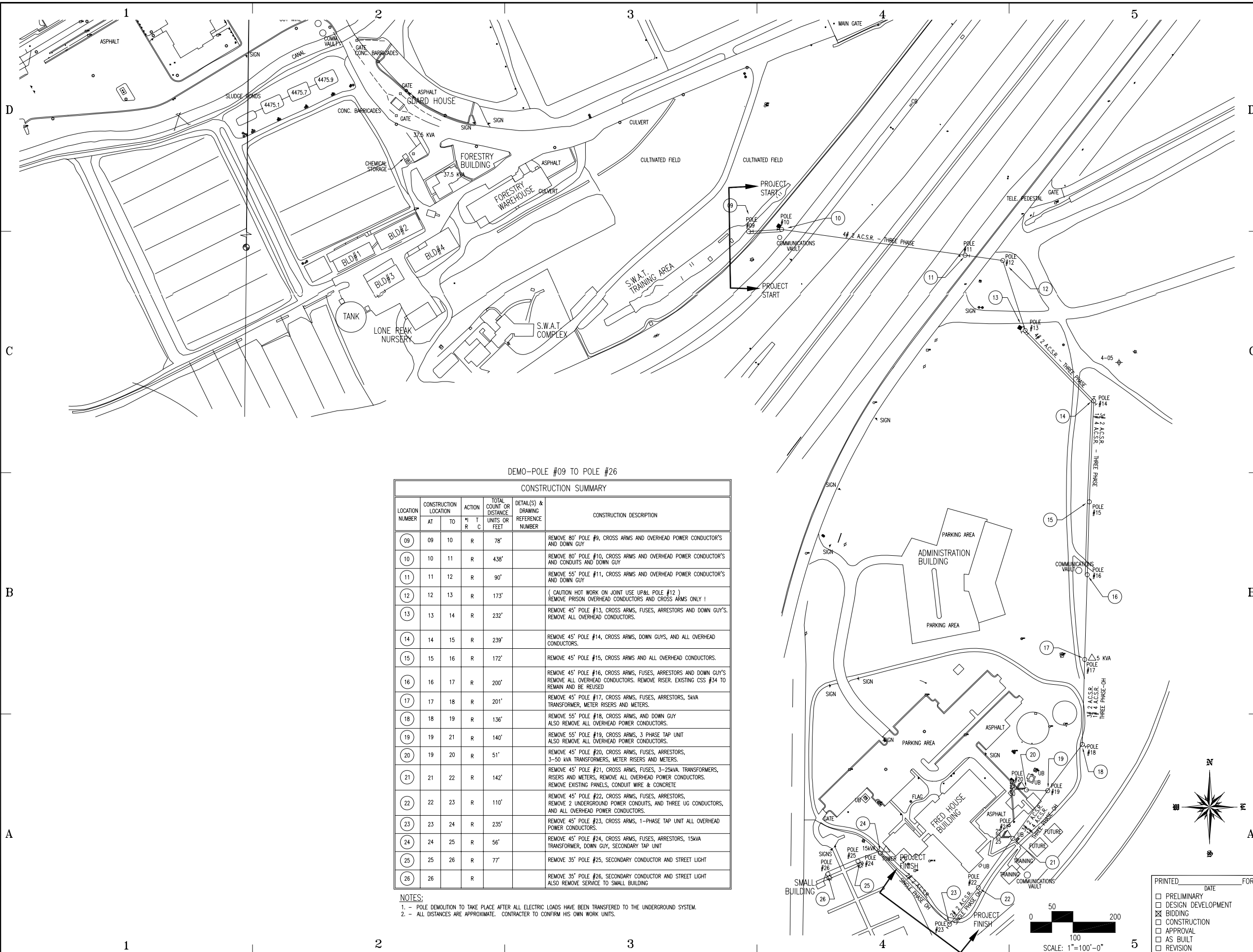
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UPGRADE

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PROPOSED SYSTEM ONE-LINE DIAGRAM		
		
SHEET 4 OF 11		

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DEMO-POLE #09 TO POLE #26						
CONSTRUCTION SUMMARY						
LOCATION NUMBER	CONSTRUCTION LOCATION AT	CONSTRUCTION LOCATION TO	ACTION	TOTAL COUNT OR DISTANCE UNITS OR FEET	DETAIL(S) & DRAWING REFERENCE NUMBER	CONSTRUCTION DESCRIPTION
09	09	10	R	78'		REMOVE 80' POLE #9, CROSS ARMS AND OVERHEAD POWER CONDUCTOR'S AND DOWN GUY
10	10	11	R	438'		REMOVE 80' POLE #10, CROSS ARMS AND OVERHEAD POWER CONDUCTOR'S AND CONDUITS AND DOWN GUY
11	11	12	R	90'		REMOVE 55' POLE #11, CROSS ARMS AND OVERHEAD POWER CONDUCTOR'S AND DOWN GUY
12	12	13	R	173'		( CAUTION HOT WORK ON JOINT USE UP&L POLE #12 ) REMOVE PRISON OVERHEAD CONDUCTORS AND CROSS ARMS ONLY !
13	13	14	R	232'		REMOVE 45' POLE #13, CROSS ARMS, FUSES, ARRESTORS AND DOWN GUY'S. REMOVE ALL OVERHEAD CONDUCTORS.
14	14	15	R	239'		REMOVE 45' POLE #14, CROSS ARMS, DOWN GUY'S, AND ALL OVERHEAD CONDUCTORS.
15	15	16	R	172'		REMOVE 45' POLE #15, CROSS ARMS AND ALL OVERHEAD CONDUCTORS.
16	16	17	R	200'		REMOVE 45' POLE #16, CROSS ARMS, FUSES, ARRESTORS AND DOWN GUY'S REMOVE ALL OVERHEAD CONDUCTORS. REMOVE RISER. EXISTING CSS #34 TO REMAIN AND BE REUSED
17	17	18	R	201'		REMOVE 45' POLE #17, CROSS ARMS, FUSES, ARRESTORS, 5KVA TRANSFORMER, METER RISERS AND METERS.
18	18	19	R	136'		REMOVE 55' POLE #18, CROSS ARMS, AND DOWN GUY ALSO REMOVE ALL OVERHEAD POWER CONDUCTORS.
19	19	21	R	140'		REMOVE 55' POLE #19, CROSS ARMS, 3 PHASE TAP UNIT ALSO REMOVE ALL OVERHEAD POWER CONDUCTORS.
20	19	20	R	51'		REMOVE 45' POLE #20, CROSS ARMS, FUSES, ARRESTORS, 3-50 KVA TRANSFORMERS, METER RISERS AND METERS.
21	21	22	R	142'		REMOVE 45' POLE #21, CROSS ARMS, FUSES, 3-25KVA TRANSFORMERS, RISERS AND METERS, REMOVE ALL OVERHEAD POWER CONDUCTORS. REMOVE EXISTING PANELS, CONDUIT WIRE & CONCRETE
22	22	23	R	110'		REMOVE 45' POLE #22, CROSS ARMS, FUSES, ARRESTORS, REMOVE 2 UNDERGROUND POWER CONDUITS, AND THREE UG CONDUCTORS, AND ALL OVERHEAD POWER CONDUCTORS.
23	23	24	R	235'		REMOVE 45' POLE #23, CROSS ARMS, 1-PHASE TAP UNIT ALL OVERHEAD POWER CONDUCTORS.
24	24	25	R	56'		REMOVE 45' POLE #24, CROSS ARMS, FUSES, ARRESTORS, 15KVA TRANSFORMER, DOWN GUY, SECONDARY TAP UNIT
25	25	26	R	77'		REMOVE 35' POLE #25, SECONDARY CONDUCTOR AND STREET LIGHT
26	26		R			REMOVE 35' POLE #26, SECONDARY CONDUCTOR AND STREET LIGHT ALSO REMOVE SERVICE TO SMALL BUILDING

NOTES:  
1. - POLE DEMOLITION TO TAKE PLACE AFTER ALL ELECTRIC LOADS HAVE BEEN TRANSFERRED TO THE UNDERGROUND SYSTEM.  
2. - ALL DISTANCES ARE APPROXIMATE. CONTRACTOR TO CONFIRM HIS OWN WORK UNITS.



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# DEPARTMENT OF CORRECTIONS

DRAPER, UTAH

DRAPER PRISON  
ADMIN/ACADEMY  
UNDERGROUND POWER  
UPGRADE

STATE PROPERTY ID. #-  
DFCM PROJECT #06139100

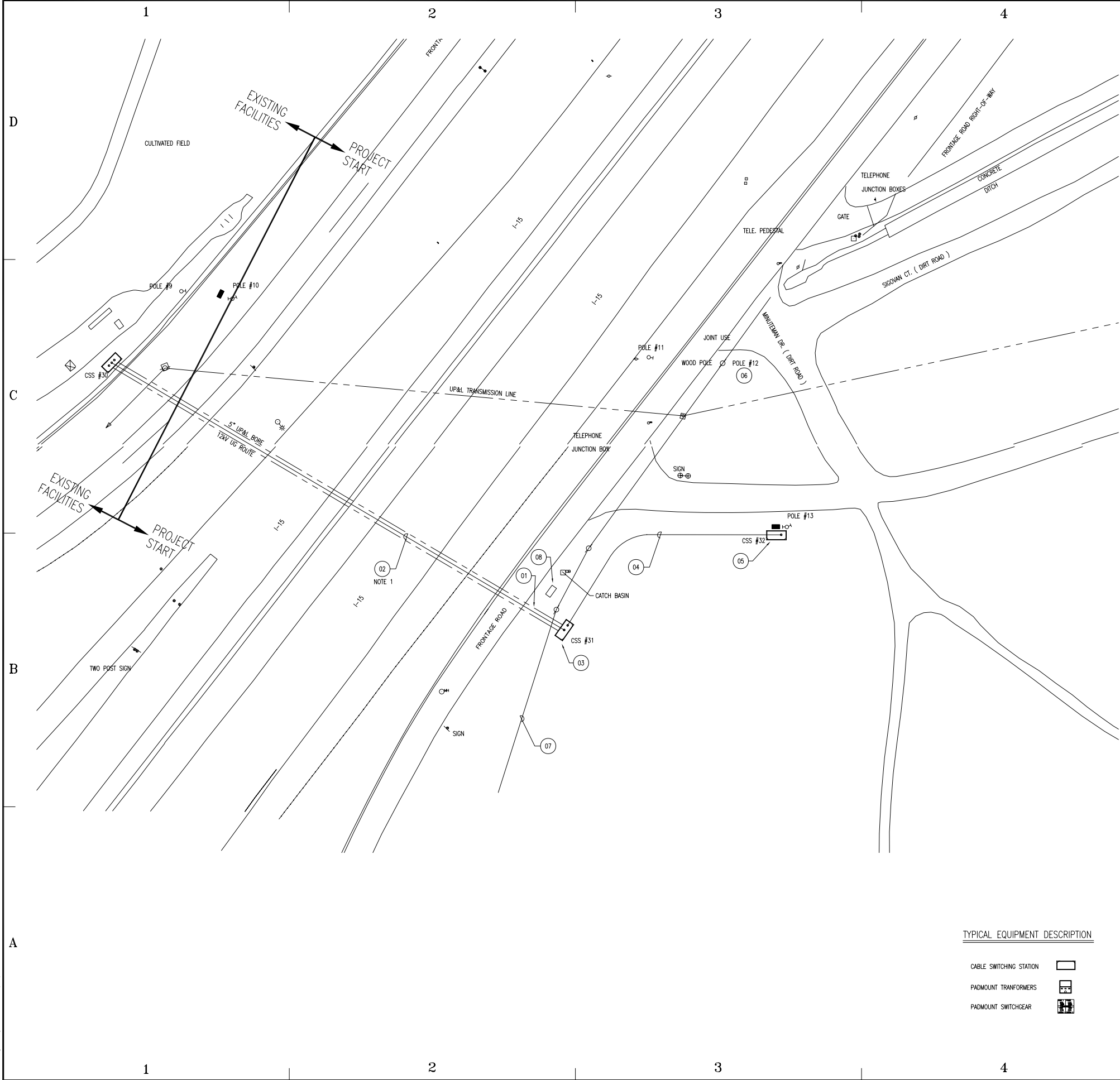
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SHEET TITLE

OVERHEAD SITE FACILITIES  
DEMOLITION PLAN

E - 05

SHEET 5 OF 11



CONSTRUCTION SUMMARY				
LOCATION NUMBER	CONSTRUCTION LOCATION		DETAIL(S) & DRAWING REFERENCE NUMBER	CONSTRUCTION DESCRIPTION
	AT	TO		
01	HIGHWAY BORE	CSS #31		LOCATE EXISTING 6" HDPE CONDUIT THAT HAS BEEN INSTALLED UNDER HIGHWAY. EXTEND (1) 6" PVC CONDUITS TO CSS #31.
02	CSS #30	CSS #31		INSTALL (3) 2/0 CU 15KV CABLES AND (1) 2/0 CU 600V NEUTRAL INSULATED CABLE IN NEW AND EXISTING CONDUIT.
03	CSS #31		1 ETT	INSTALL (1) 4 POSITION CSS
04	CSS #31	CSS #32	2 ETD	INSTALL (1) 15KV 3Ø CIRCUIT
05	CSS #32		1 ETT	INSTALL (1) 4 POSITION CSS
06	POLE #12			PACIFICORP POLE
07				PACIFICORP 12.5KV POWER LINE
08				PACIFICORP SWITCH
15KV 3Ø CIRCUIT - CONSISTS OF (2) - 5" PVC CONDUITS. ONE CONDUIT CONTAINS (3) 2/0 COPPER 15KV CABLES AND (1) 2/0 COPPER NEUTRAL 600V INSULATED CABLE. SEE SPECIFICATIONS FOR CABLE SPECS. THE SECOND 5" PVC CONDUIT IS A SPARE.				

NOTE:  
1. - 6" HDPE CONDUIT AND BORE INSTALLED BY OTHERS.

TYPICAL EQUIPMENT DESCRIPTION

- CABLE SWITCHING STATION
- PADMOUNT TRANSFORMERS
- PADMOUNT SWITCHGEAR



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DRAPER, UTAH

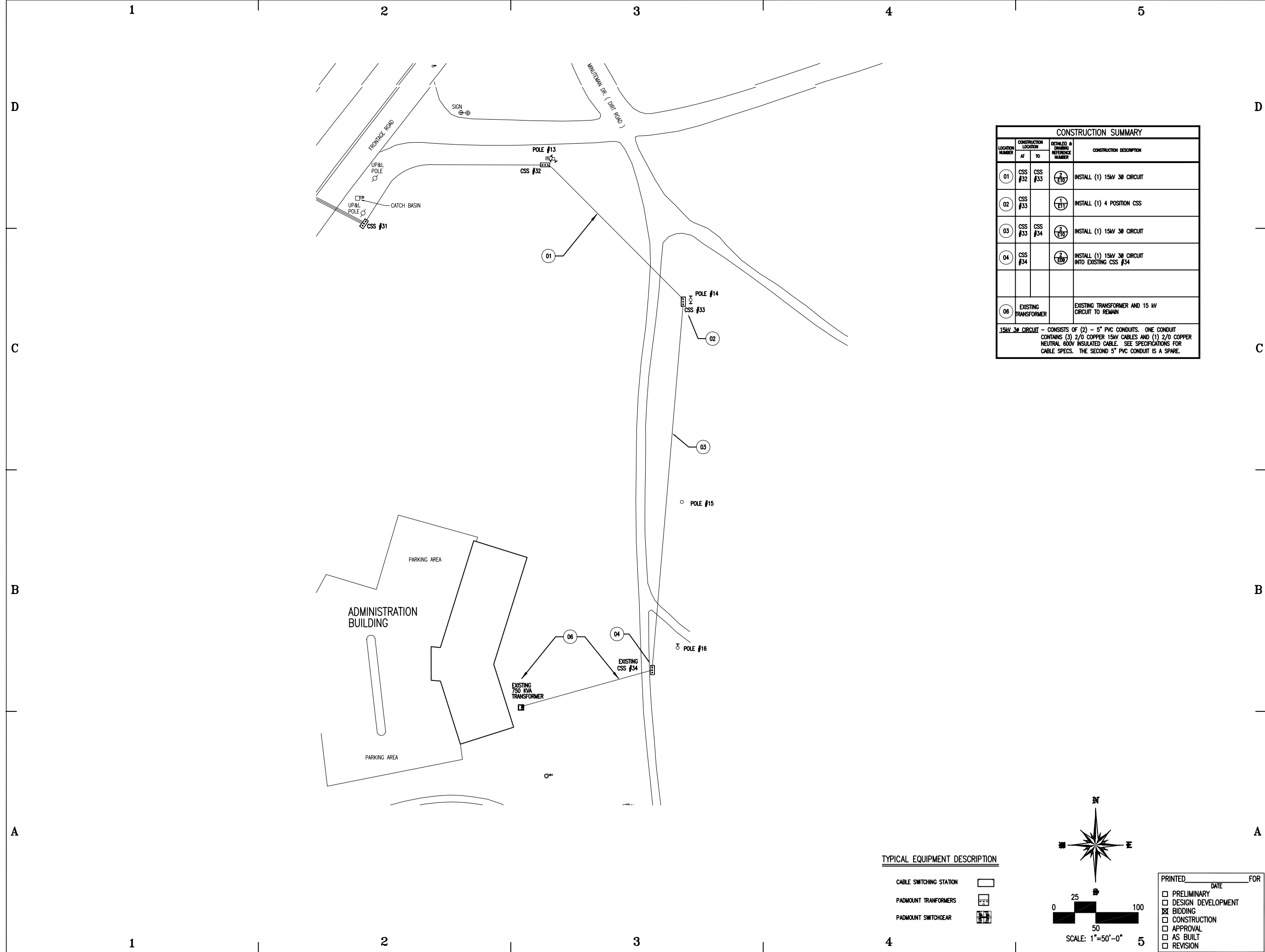
DRAPER PRISON  
ADMIN/ACADEMY  
UNDERGROUND POWER  
UPGRADE

STATE PROPERTY ID. #-  
DFCM PROJECT #06139100


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SHEET TITLE

NEW SITE FACILITY  
ELECTRIC-  
SHEET 1




CONSTRUCTION SUMMARY				
LOCATION NUMBER	CONSTRUCTION LOCATION		DETAILS & DRAWING REFERENCE NUMBER	CONSTRUCTION DESCRIPTION
	AT	TO		
01	CSS #32	CSS #33	2 ETD	INSTALL (1) 15KV 3Ø CIRCUIT
02	CSS #33		1 ETD	INSTALL (1) 4 POSITION CSS
03	CSS #33	CSS #34	2 ETD	INSTALL (1) 15KV 3Ø CIRCUIT
04	CSS #34		2 ETD	INSTALL (1) 15KV 3Ø CIRCUIT INTO EXISTING CSS #34
06	EXISTING TRANSFORMER			EXISTING TRANSFORMER AND 15 KV CIRCUIT TO REMAIN
15KV 3Ø CIRCUIT - CONSISTS OF (2) - 5" PVC CONDUITS. ONE CONDUIT CONTAINS (3) 2/0 COPPER 15KV CABLES AND (1) 2/0 COPPER NEUTRAL 600V INSULATED CABLE. SEE SPECIFICATIONS FOR CABLE SPECS. THE SECOND 5" PVC CONDUIT IS A SPARE.				



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# DEPARTMENT OF CORRECTIONS

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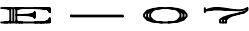
DRAPER PRISON  
ADMIN/ACADEMY  
UNDERGROUND POWER  
UPGRADE

STATE PROPERTY ID. #-  
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SHEET TITLE

NEW SITE FACILITY  
ELECTRIC-  
SHEET 2



SHEET 7 OF 11



BID ALT. #3 ELECTRIC				
CONSTRUCTION SUMMARY				
LOCATION NUMBER	CONSTRUCTION LOCATION		DETAILS & DRAWING REFERENCE NUMBER	CONSTRUCTION DESCRIPTION
01	CSS #34	CSS #35	2 E10	INSTALL (1) 15KV 3Ø CIRCUIT
02	CSS #35		1 E11	INSTALL (1) 4 POSITION CSS
03	XFMR #5		2 E11	INSTALL (1) 150KVA 3Ø TRANSFORMER.
04	CSS #35	XFMR #5	2 E10	INSTALL (1) 15KV 3Ø CIRCUIT
05	XFMR #5	PUMP BLDG	3 E09	INSTALL (1) 3" CONDUIT WITH (4) 4/0 CU THWN CONDUCTORS & #6 GND. TERMINATE CONDUIT AND CABLES AT EXISTING DISCONNECT ON BUILDING. INSTALL SERVICE GROUNDING.
06	XFMR #5	MANT BLDG	3 E09	INSTALL (1) 2" CONDUIT WITH (4) 2/0 CU THWN CONDUCTORS & #6 GND. TERMINATE CONDUIT AND CABLES AT EXISTING DISCONNECT ON BUILDING. INSTALL SERVICE GROUNDING.
07	CSS #35	CSS #36	2 E10	INSTALL (1) 15KV 3Ø CIRCUIT
08	CSS #35	XFMR #6	2 E10	INSTALL (1) 15KV 3Ø CIRCUIT
09	XFMR #6		2 E11	INSTALL (1) 112.5KVA 3Ø TRANSFORMER.
10	XFMR #6	TRAINING BLDG	4 E09	LOCATE AND INTERCEPT (2) EXISTING CONDUITS WITH CABLES TO TRAINING BUILDING. EXTEND CONDUIT TO 112.5KVA PADMOUNT TRANSFORMER. INSTALL (4) 2/0 CU THWN CONDUCTORS & #6 GND IN EACH CONDUIT.
11	TRAINING BLDG		4 E09	INSTALL (1) 125 AMP METER MAIN PANEL AT EACH (2) TRAINING BUILDING. PROVIDE METER. INSTALL SERVICE GROUNDING.
12	CSS #36		5 E09	INSTALL (1) 4 POSITION CABLE SWITCHING STATION. INSTALL (3) ELBOW ARRESTERS.
13	CSS #36	FRED HOUSE BLDG	5 E09	LOCATE AND INTERCEPT EXISTING 15KV CIRCUIT TO FRED HOUSE BUILDING. EXTEND CONDUIT AND CABLES TO CSS #36. TERMINATE CABLES AT CSS #36.
15KV 3Ø CIRCUIT - CONSISTS OF (2) - 5" PVC CONCRETE ENCASED CONDUITS. ONE CONDUIT CONTAINS (3) 2/0 COPPER 15KV CABLES AND (1) 2/0 COPPER NEUTRAL 600V INSULATED CABLE. SEE SPECIFICATIONS FOR CABLE SPECS. THE SECOND 5" PVC CONDUIT IS A SPARE.				

TYPICAL EQUIPMENT DESCRIPTION

- CABLE SWITCHING STATION (CSS)
- PADMOUNT TRANSFORMERS
- PADMOUNT SWITCHGEAR



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UNDERGROUND POWER  
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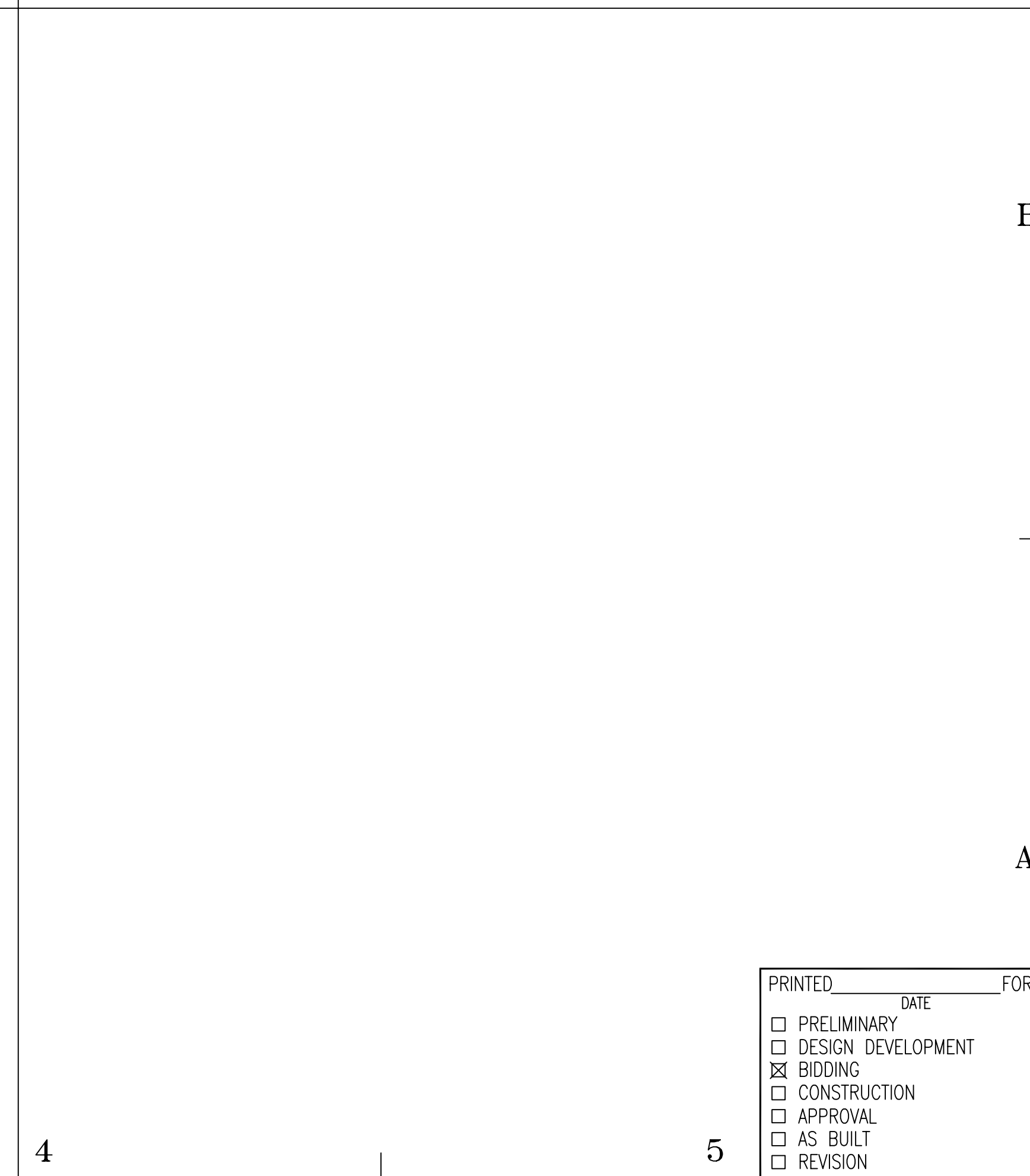
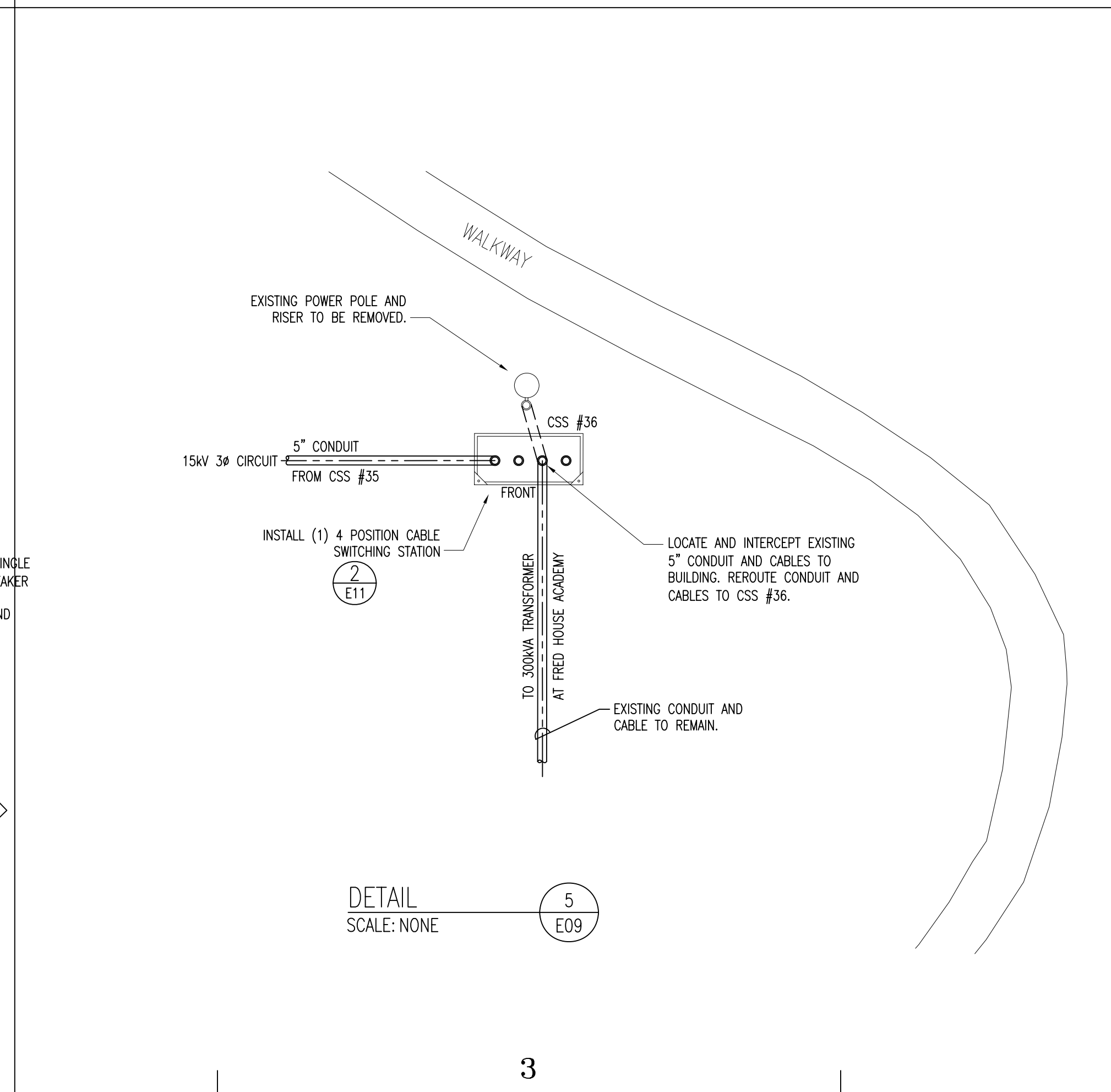
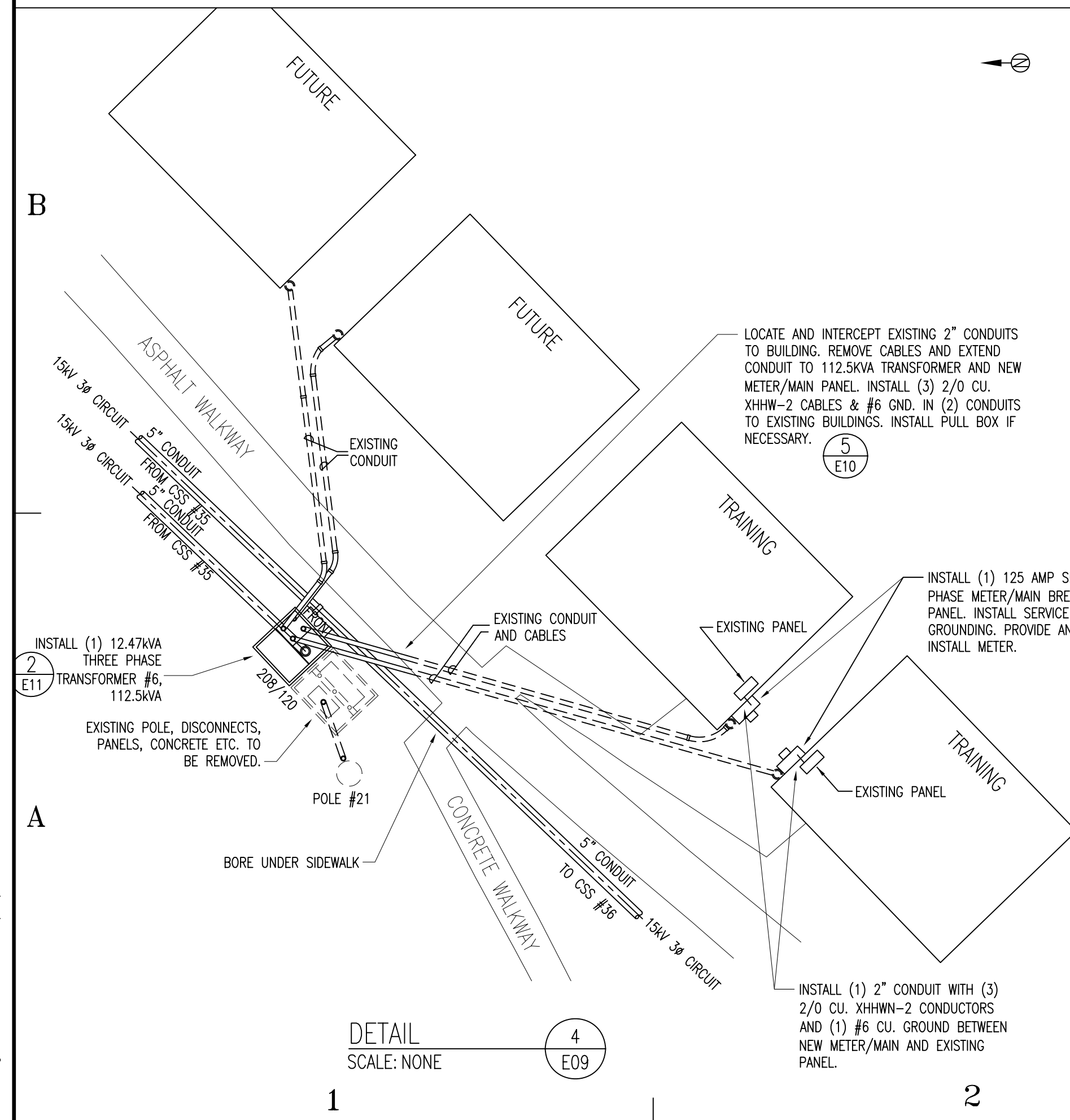
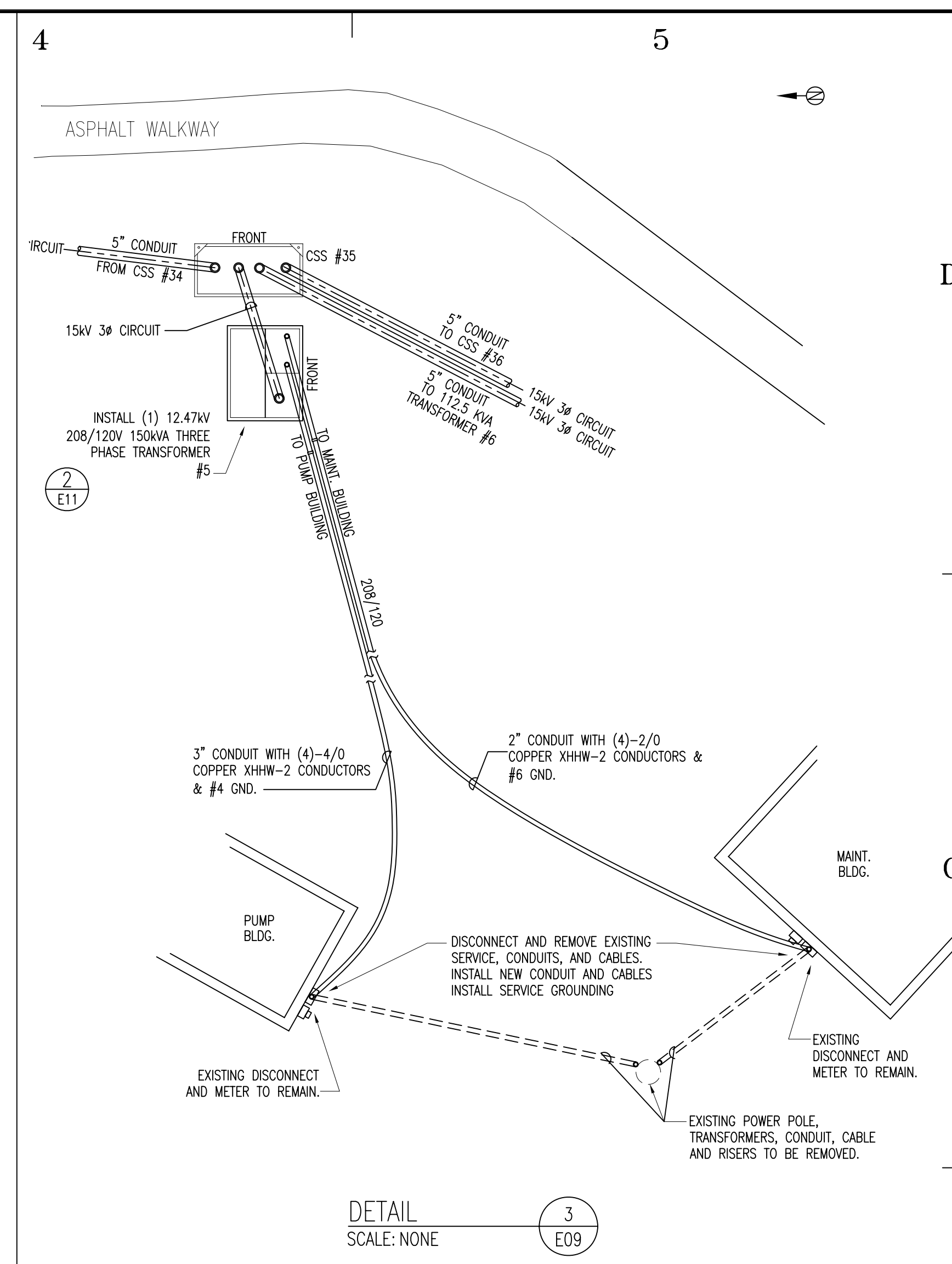
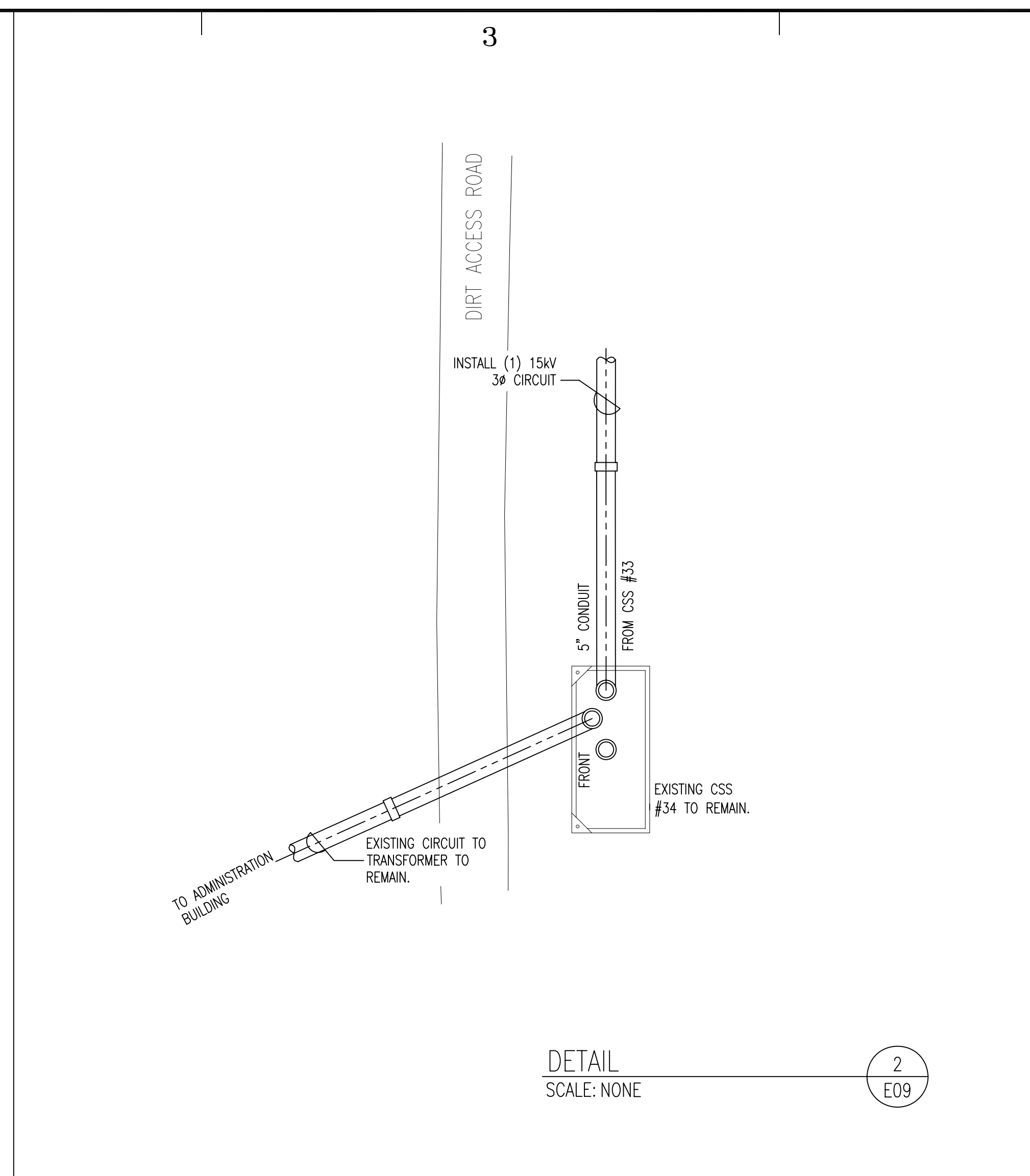
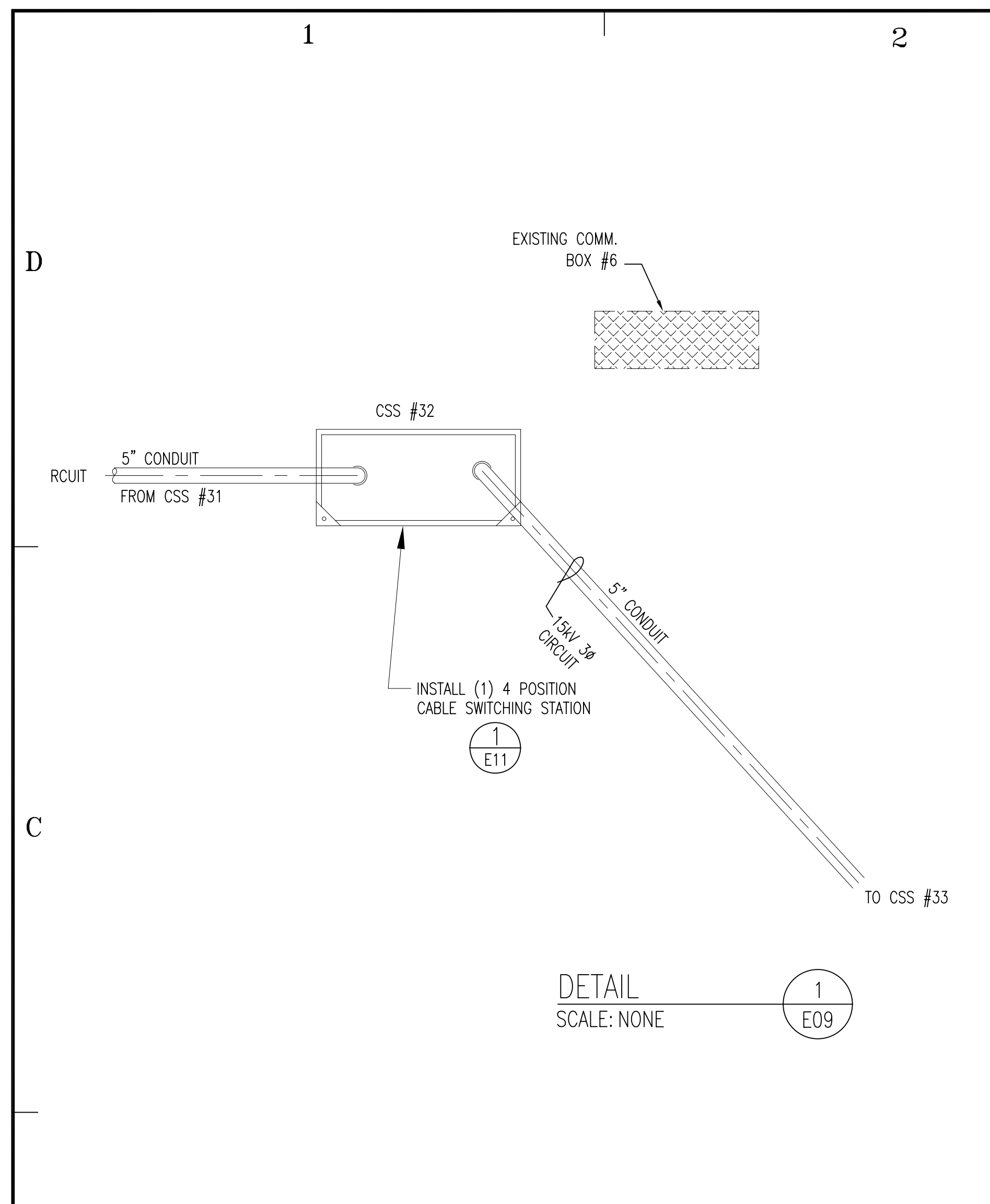
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SHEET TITLE

NEW SITE FACILITY  
ELECTRIC  
SHEET 3

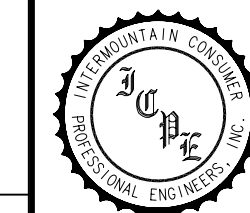
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DEPARTMENT  
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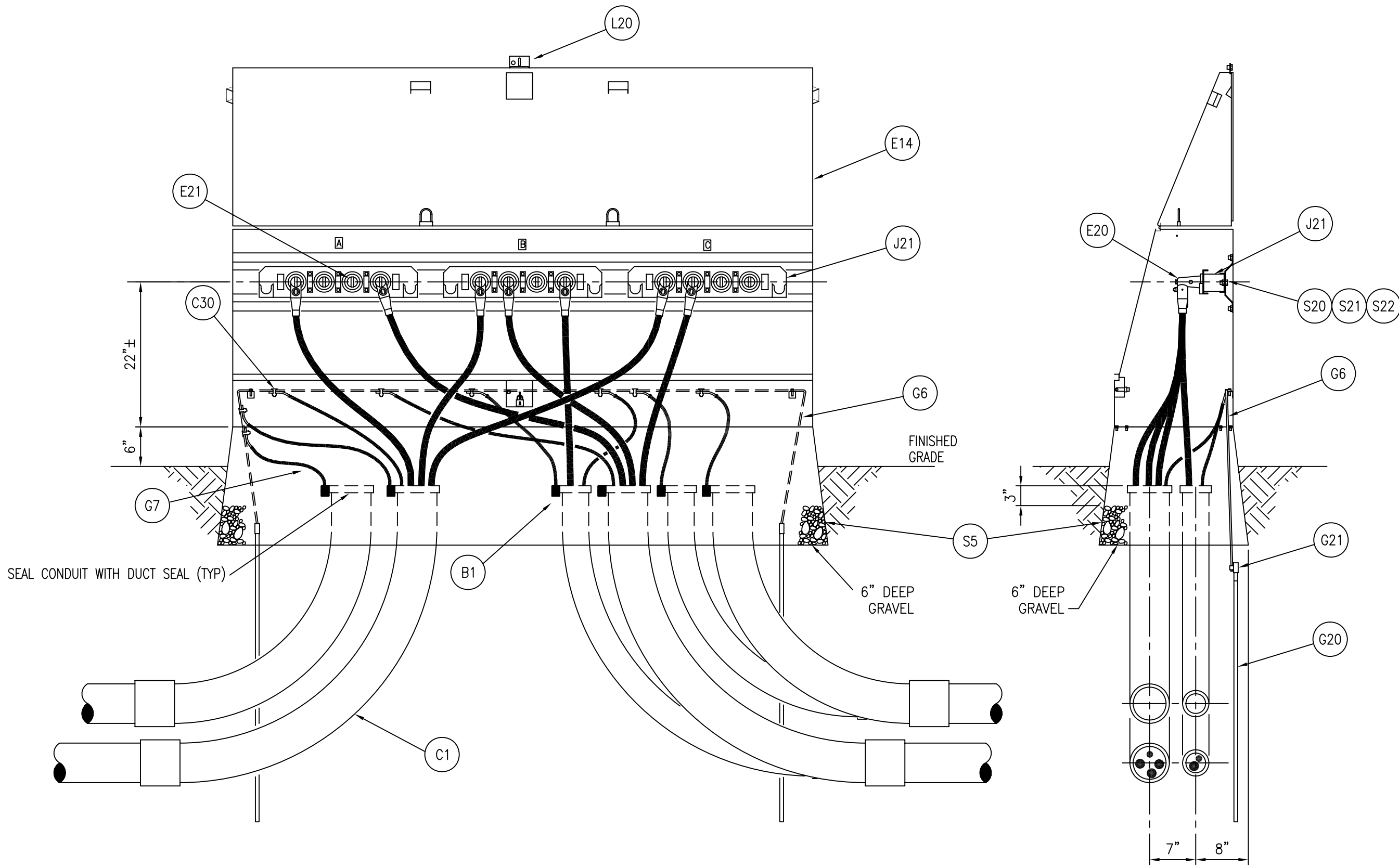
NEW LOCATION  
DETAILS

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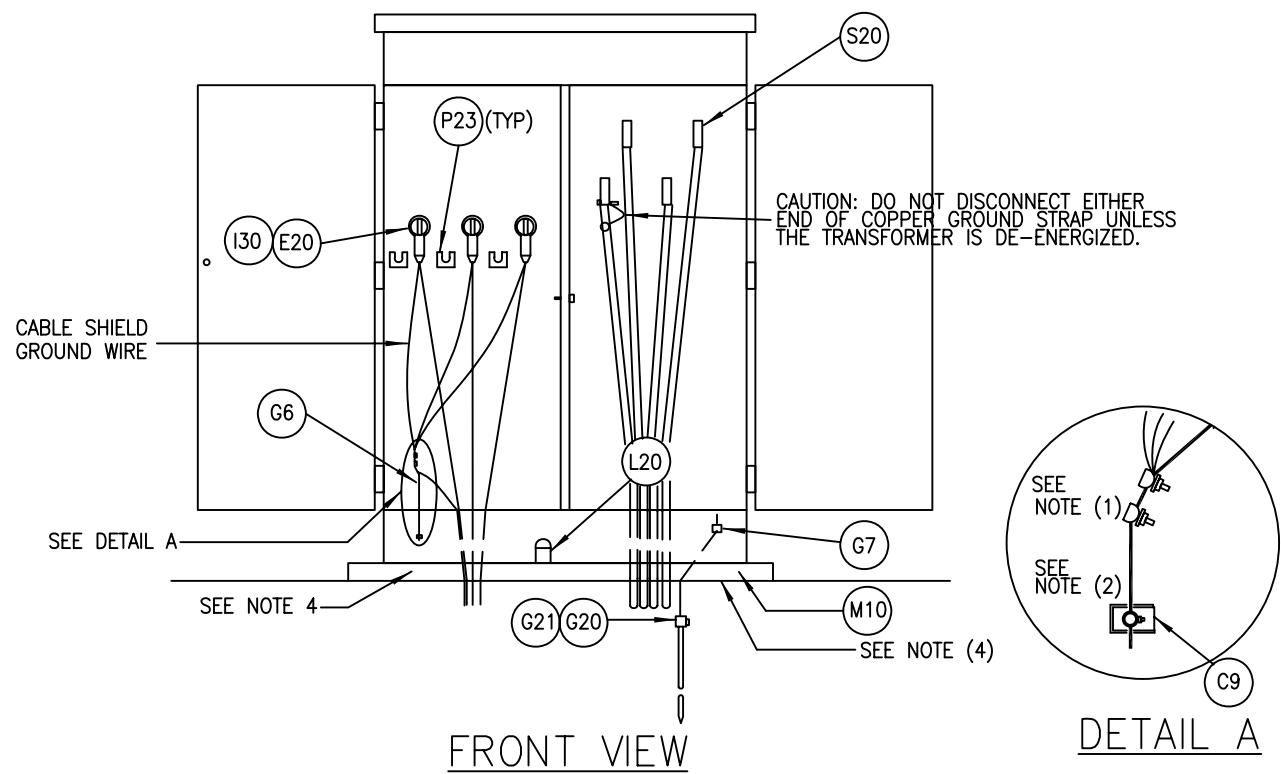
SHEET 9 OF 11





1 TYPICAL CABLE SWITCHING STATION  
E11 SCALE: NOT TO SCALE

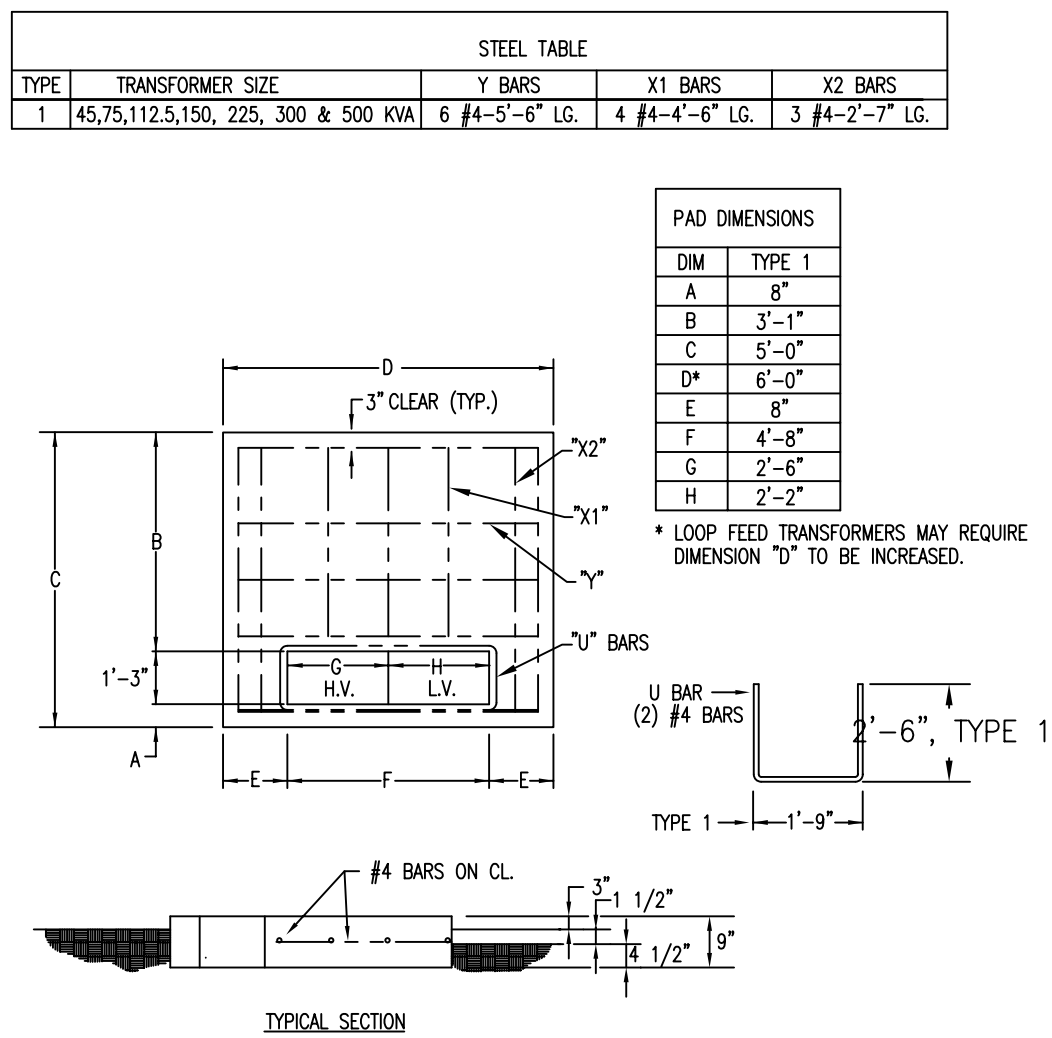
- NOTES:
- CONDUITS SHOWN ARE FOR REFERENCE ONLY. THE CONDUITS MAY ENTER THE FRONT, BACK OR ENDS OF THE CABLE SWITCHING STATION.
  - QUANTITY OF CONDUITS SHOWN ARE FOR REFERENCE ONLY. SEE DRAWINGS FOR QUANTITY AND SIZE OF CONDUITS.



- NOTES:
- TERMINATE ALL NEUTRAL CONDUCTORS IN THESE CONNECTORS. DO NOT UNBOLT THE CONNECTORS UNLESS PRIMARY CABLES ASSOCIATED WITH THE NEUTRALS TERMINATED IN THE CONNECTORS ARE DE-ENERGIZED.
  - DO NOT UNBOLT THIS TRANSFORMER GROUND CONNECTOR UNLESS THE TRANSFORMER IS DE-ENERGIZED.
  - ALL CONDUIT BONDING BUSHINGS TO BE GROUNDED WITH 2/0 COPPER.
  - THE TRANSFORMER PAD FOR EACH TRANSFORMER SHALL BE APPROPRIATELY SIZED.

TYPICAL PADMOUNTED TRANSFORMER  
LIST OF MATERIAL

ITEM	QTY	DESCRIPTION
C9	2	TRANSFORMER GROUND CONNECTOR
C30	2	SPLIT BOLT CONNECTOR
E20	3	LOADBREAK ELBOW, 15KV URD CABLE
G6	7	#2 AWG COPPER BARE STRANDED GROUND WIRE
G7	5	#1/0 COPPER WIRE
G20	1	10' x 5/8" COPPER GROUND ROD
G21	1	GROUND ROD CONNECTOR
I30	3	15 KV BUSHING INSERT
I31	3	15 KV INSULATING RECEPTACLE
L20	1	PADLOCK
M10	1	MOUNTING PAD
P23	3	STANDOFF PLUG
S20	4	SECONDARY SPADES & CABLE CONNECTIONS TO MATCH SERVICE CONDUCTOR NUMBER & SIZE FOR COPPER SERVICE CONDUCTORS.



TYPICAL 3 PHASE PADMOUNTED TRANSFORMER PAD

2 TYPICAL THREE PHASE PADMOUNTED TRANSFORMER  
E11 SCALE: NOT TO SCALE

BILL OF MATERIAL		
ITEM	QUANTITY	DESCRIPTION
	4 WAY	
C30	AS REQ'D	SPLIT BOLT CONNECTOR
E14	1	200 AMPERE CABLE SWITCHING STATION ENCLOSURE COMPRISED OF: (1) ENCLOSURE COMPLETE WITH LOADBREAK JUNCTION MOUNTING PLATES. (1) 24" FIBERGLASS GROUND SLEEVE
E20	AS REQ'D	200A LOADBREAK ELBOW FOR: #2/0 CU 15KV SHIELDED CABLE
G6	AS REQ'D	#2 AWG STRANDED BARE COPPER GROUND WIRE
G20	2	10'-0"x5/8" COPPER GROUND ROD
G21	2	GROUND ROD CONNECTOR
E21	AS REQ'D	INSULATED GROUNDED 200A BUSHING CAP
J21	3	4 WAY LOAD BREAK JUNCTION
L20	1	PADLOCK (KEYED AS PER OWNER DIRECTION)
S20	6	1/2" x LENGTH REQUIRED, STAINLESS STEEL BOLT
S21	6	1/2" STAINLESS STEEL LOCK WASHER
S22	6	1/2" STAINLESS STEEL HEX NUT
S5	1	24" FIBERGLASS GROUND SLEEVE
B1	AS REQ'D	BONDING BUSHING
G7	AS REQ'D	#4 BARE COPPER WIRE
C1	AS REQ'D	PVC COATED OR VINYL WRAPPED RIGID GALVANIZED STEEL 90° ELBOW.

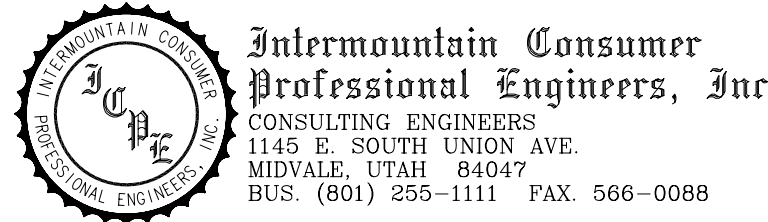
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# DEPARTMENT OF CORRECTIONS

DRAPER, UTAH

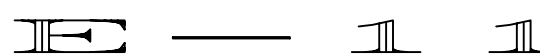
DRAPER PRISON  
ADMIN/ACADEMY  
UNDERGROUND POWER  
UPGRADE

STATE PROPERTY ID. #-  
DFCM PROJECT #06139100

ISSUE DATE:  
PROJECT NO: 167-004  
CAD\_DWG\_FILE:  
DRAWN BY: NN  
CHECKED BY: CJH

SHEET TITLE

PADMOUNTED  
EQUIPMENT  
DETAILS



SHEET 11 OF 11